

Murata EMI Filter Selection Simulator - [Simulation No. 01]
 File(E) Simulation(S) Window(W) Help(H)

Simulation circuit

(1) Input Signal 10
 (2) Transmitter IC 2
 (3) EMI Filter 3
 (4) Transmission line 16
 (5) Receiver IC 5
 Simulation point 6

(1) Input Signal

Clock frequency [MHz] 10
 Duty ratio [%] 50
 Rise time [nsec] 2
 Fall time [nsec] 2

(2) Transmitter IC

Choose from IC list
 Specify IC output characteristics by entering LCR values

IC type
 IC product code

(3) EMI Filter (Murata products)

Choose from list Reset

(4) Transmission line

Specify by features
 Enter characteristic impedance value
 Disregard transmission line

Line width [mm] 0.1
 Substrate thickness [mm] 1.6
 Line length [mm] 100
 Substrate material Glass epoxy ($\epsilon=4.6$)
 Characteristic impedance [ohm] 169.74

(5) Receiver IC

Choose from IC list
 Specify IC output characteristics by entering LCR values

IC type
 IC product code

Start simulation

Murata
 Murata Manufacturing Co. Ltd.

Start | | Murata EMI Filter Se...

16:02

FIG. 1



FIG. 2

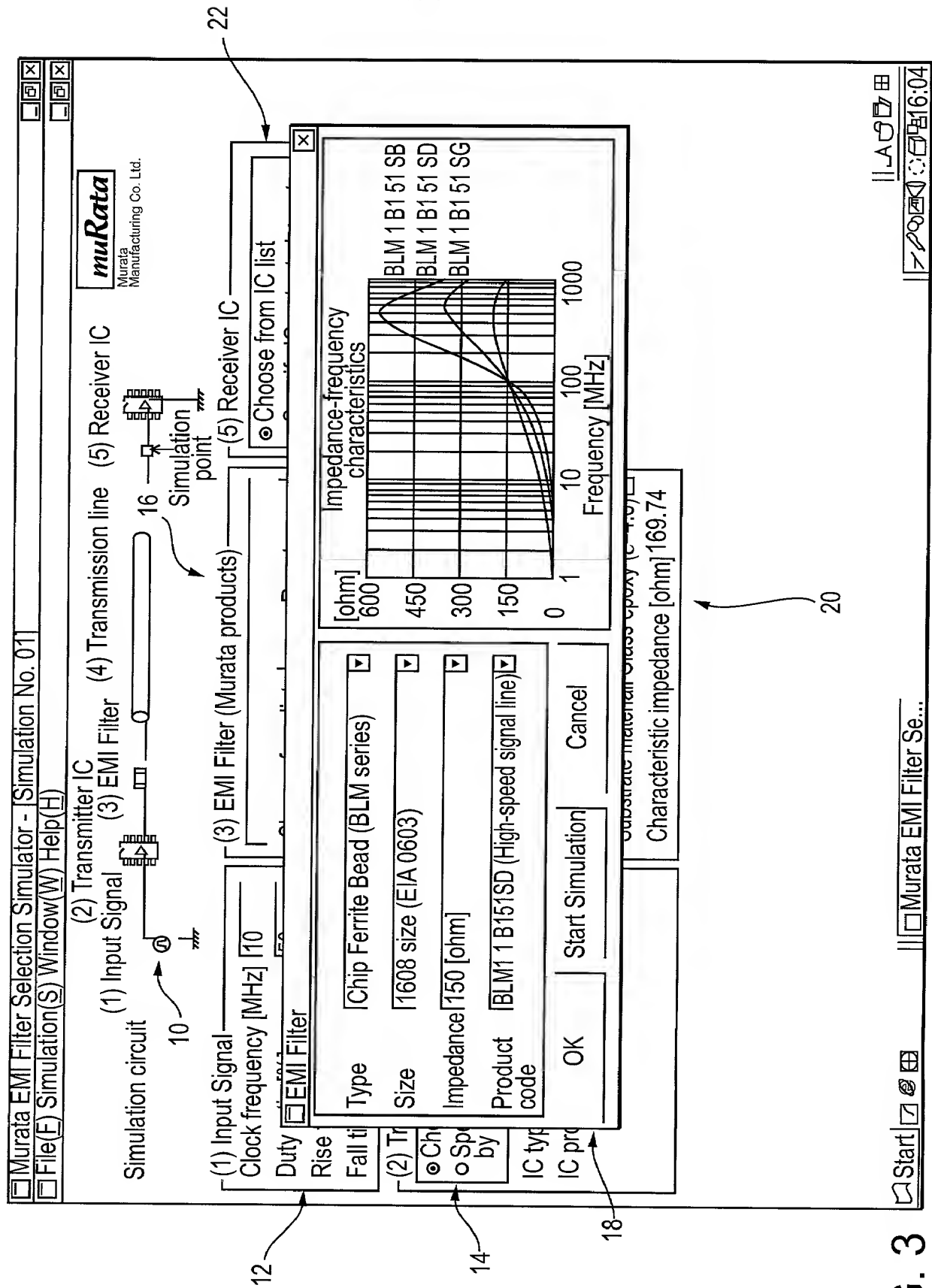


FIG. 3

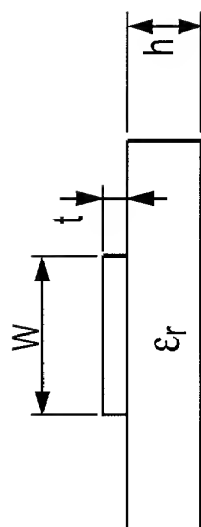
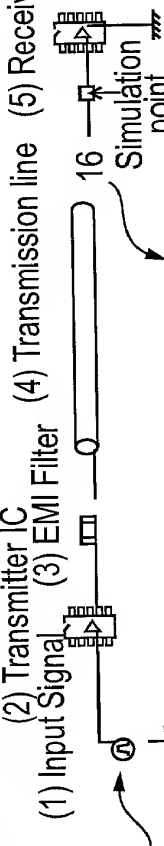


FIG. 4

Murata EMI Filter Selection Simulator - [Simulation No. 01]
 File(F) Simulation(S) Window(W) Help(H)

Simulation circuit

(1) Input Signal  10

(2) Transmitter IC

(3) EMI Filter (Murata products)

(4) Transmission line

(5) Receiver IC

Start simulation

Simulation point

16

12

14

20

22

muRata
Murata Manufacturing Co. Ltd.

(1) Input Signal

Clock frequency [MHz] 10

Duty ratio [%] 50

Rise time [nsec] 2

Fall time [nsec] 2

(2) Transmitter IC

Choose from IC list

Specify IC output characteristics by entering LCR values

IC type CMOS

IC product code 74LVC04

(3) EMI Filter (Murata products)

BLM111B151SD (High speed signal line)

Choose from list

Reset

(4) Transmission line

Specify by features

Enter characteristic impedance value

Disregard transmission line

Line width [mm] 0.1

Substrate thickness [mm] 1.6

Line length [mm] 100

Substrate material Glass epoxy ($\epsilon=4.6$)

Characteristic impedance [ohm] 169.74

(5) Receiver IC

Choose from IC list

Specify IC output characteristics by entering LCR values

IC type CMOS

IC product code 74AC04

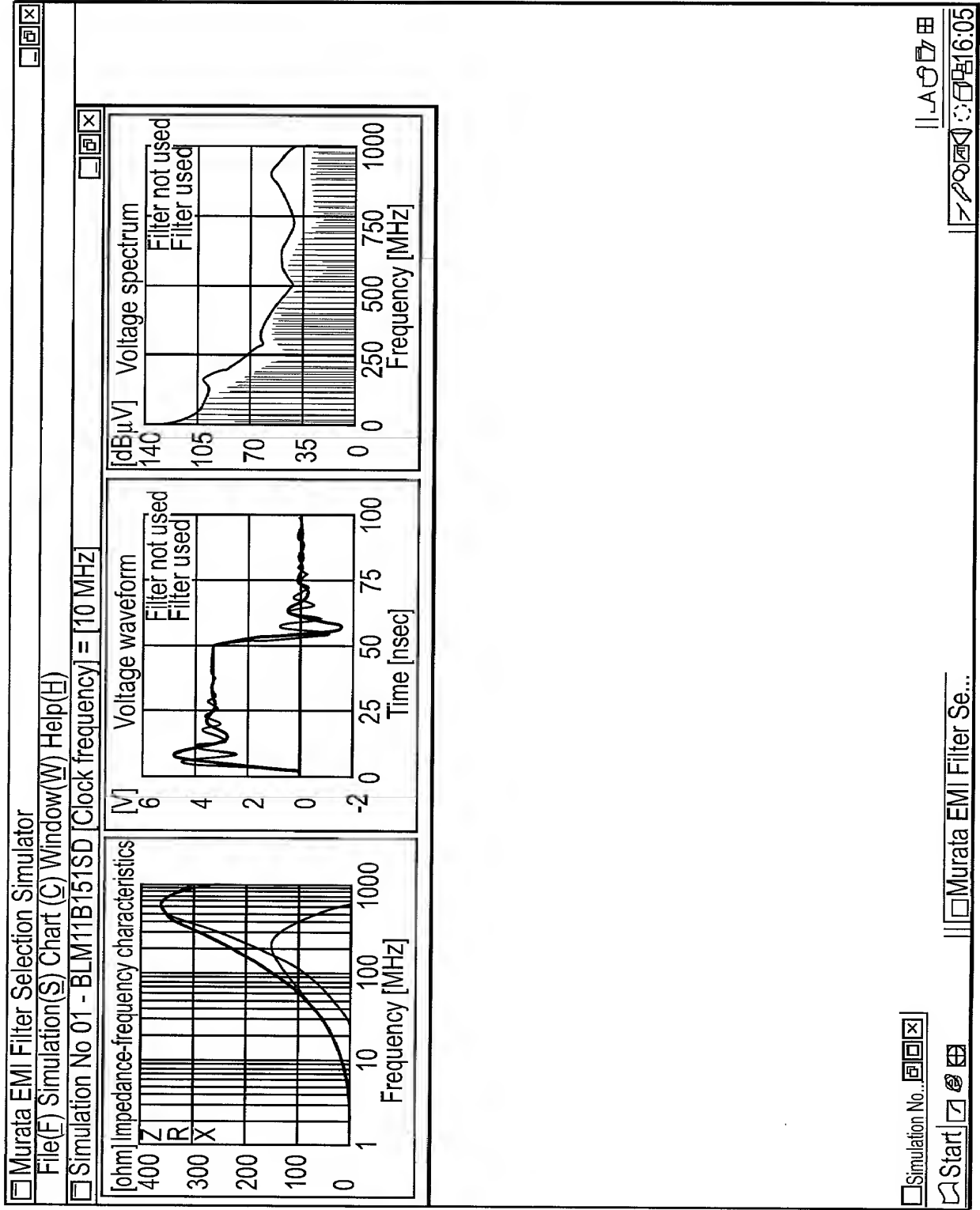
Start simulation

Start

Murata EMI Filter Se...

16:04

FIG. 5





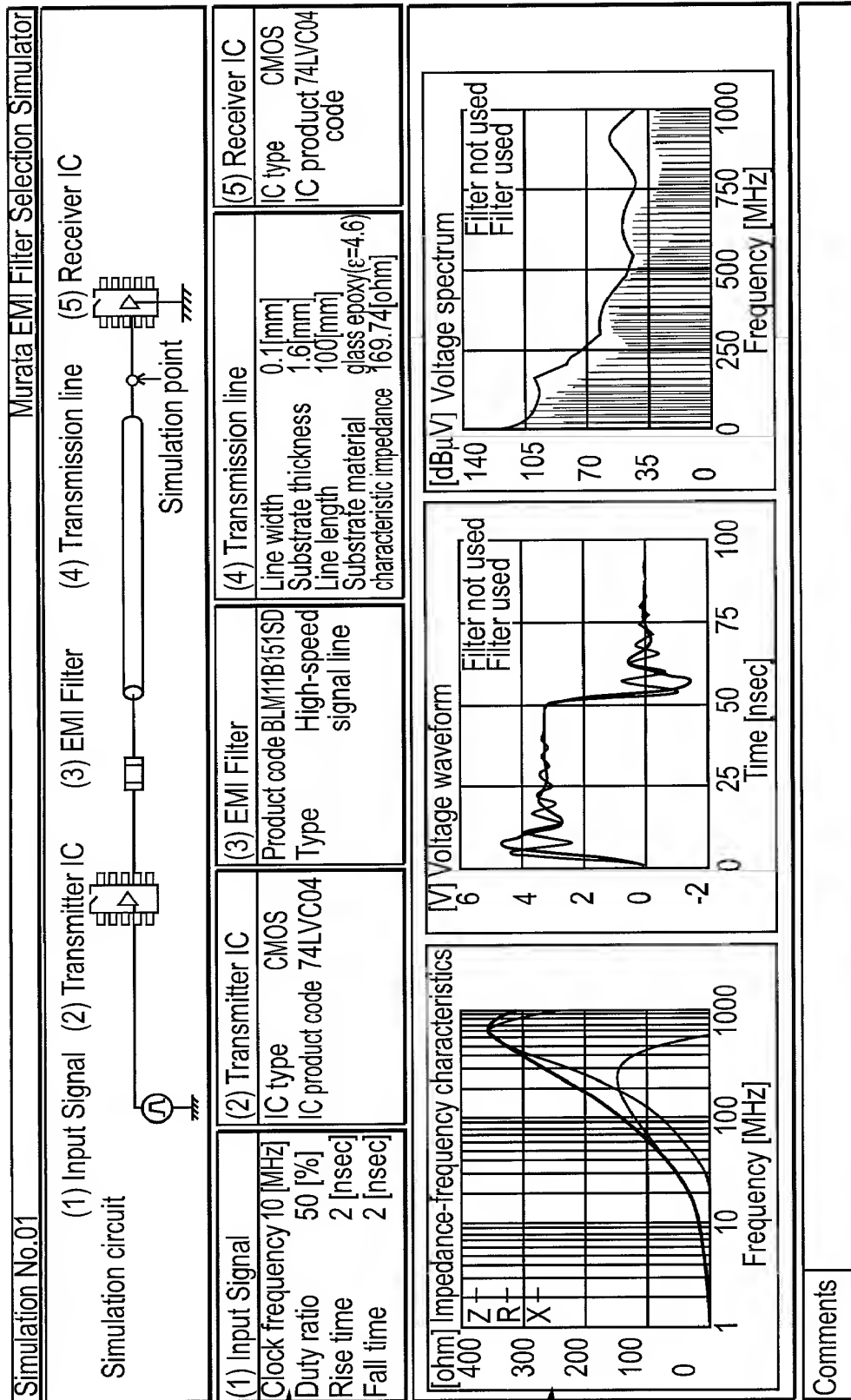


FIG. 8